

Fig. 1

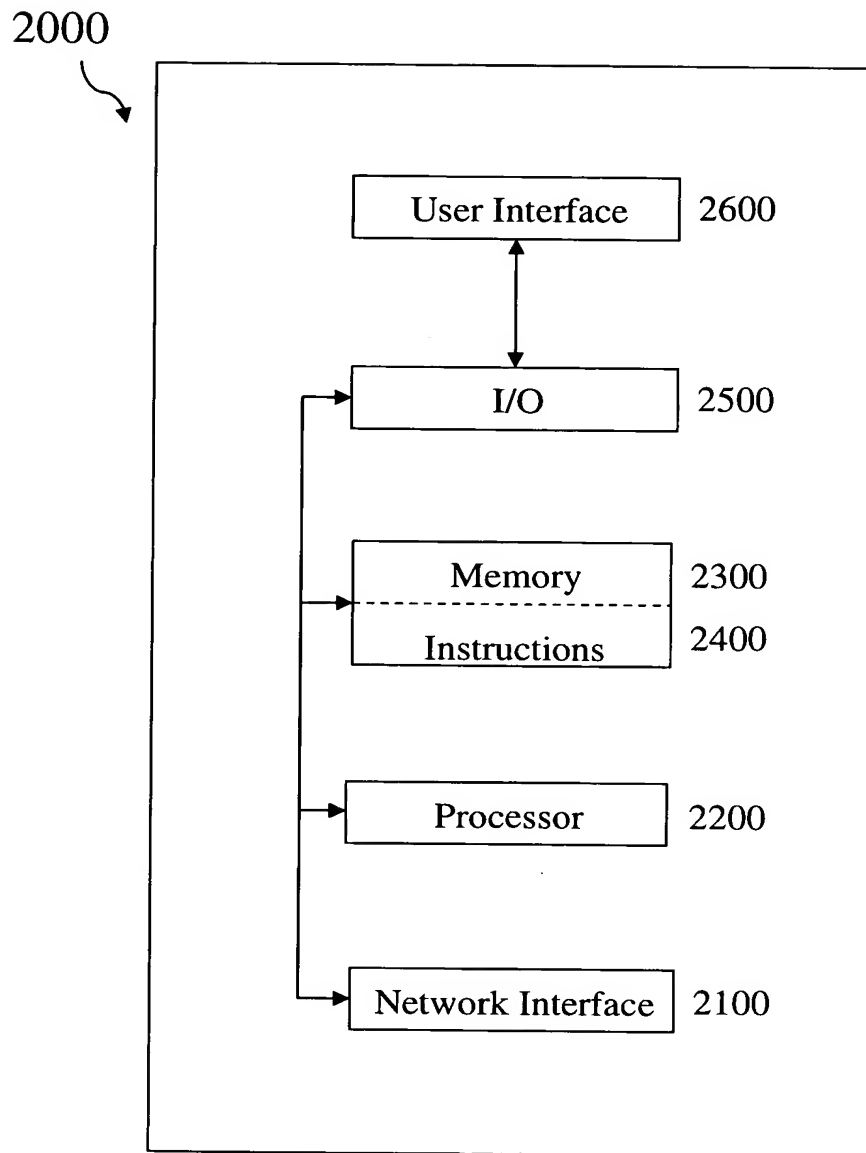
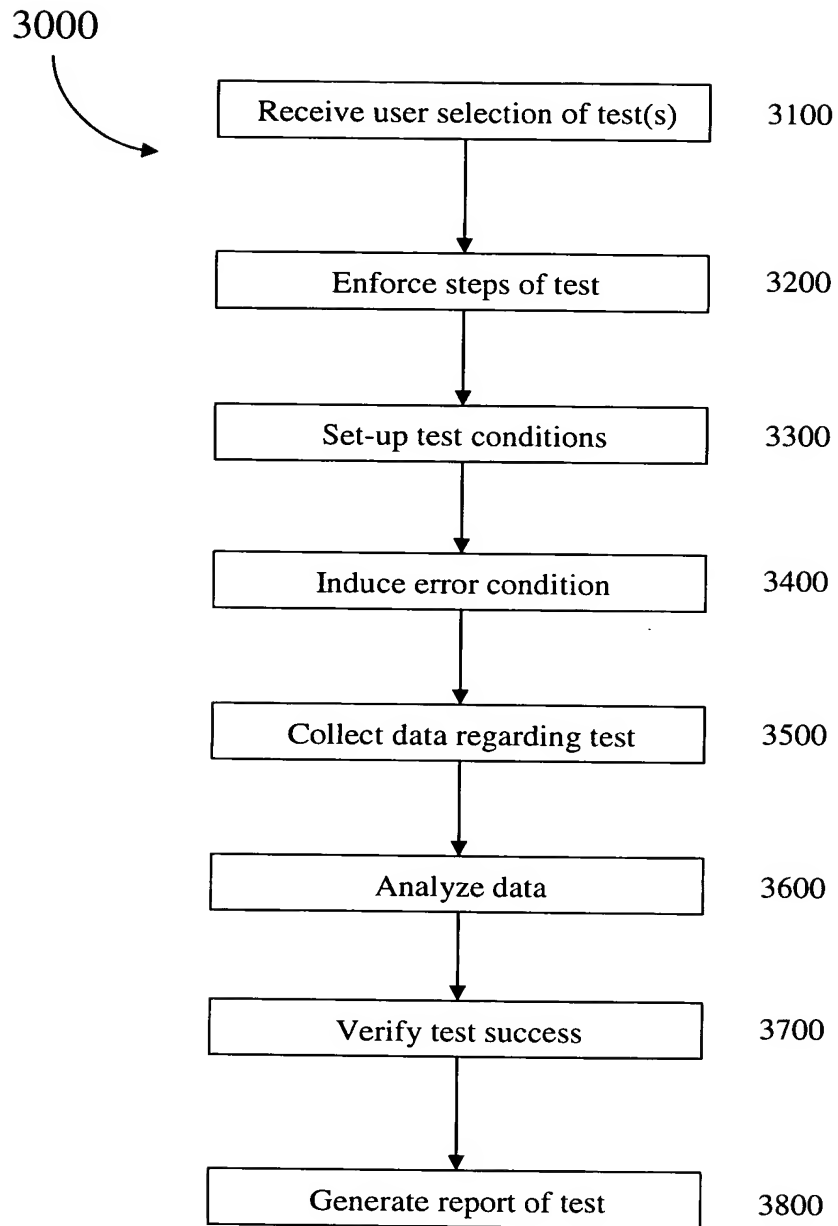


Fig. 2

**Fig. 3**

4000

4100

Siemens Safety Integrated Acceptance Test		Introduction	
<p>List of Tests</p> <ul style="list-style-type: none"> Overview Pulse Disable Path External Stops SPL Inputs/Outputs Wiring Cross Check Emergency Stop Functional Relationships (SBH) Safe Oper. Stop (SG) Safe Speed (SE) Safe Software Limit Finished 		<p>Welcome to Siemens Safety Integrated Acceptance Test</p> <p>This wizard provides assistance for performing tests and preparing the Acceptance Test Report.</p>	
		Machine designation:	4410
		Machine type:	4420
		Serial No.:	4430
		Manufacturer:	4440
		PLC version manufacturer:	4450
		Ultimate customer:	4460
		Name of tester:	4470
		Series machine startup	4480
		Uses "Safe programmable logic."	4490
4200	4300	4350	4500
<p>< Previous Page</p> <p>Next Page ></p>		4700	4600
		Exit	
		Help	

Fig. 4

4200













List of Tests	
	 Overview
	 Pulse Disable Path
4210	✓ Test 1
	 External Stops
4220	✓ Operator Door
4230	✗ Tool Chain Door
	 Test 3
	 SPL Inputs/Outputs
	 Wiring Cross Check
	 Emergency Stop
	 Functional Relationships
	 (SBH) Safe Oper. Stop
	 (SG) Safe Speed
	 (SE) Safe Software Limit
4290	 Finished

Fig. 5

6000

Siemens Safety Integrated Acceptance Test			
List of Tests <ul style="list-style-type: none">OverviewPulse Disable PathExternal StopsSPL Inputs/OutputsWiring Cross CheckEmergency StopFunctional Relationships(SBH) Safe Oper. Stop(SG) Safe Speed(SE) Safe Software LimitFinished	Test of Wiring Cross Check This test verifies that appropriate alarms are generated when one channel of a SI signal is disconnected	Summary	
	Warning Protection of operating personnel must be given top priority when safety functions are configured and tested.	Begin This Test	
	Purpose This test verifies that wiring problem detection of a safety relevant signal is cross checked. If a wiring problem occurs, the appropriate alarm should be generated.	6370	
	Procedure Press the "Begin This Test" button and then disconnect a channel of a safety relevant input signal. An example test involves disconnecting one input signal to the protective door/ light barrier. All alarms generated during the test appear in a list. Check the alarms that you wish to include in the report and uncheck the rest. A checkbox is provided for verifying that the appropriate alarms occurred. Repeat the test for all Safety Integrated	6360	
	<input type="checkbox"/> This test is not applicable to this machine	6350	
< Previous Page Next Page >		Exit Help	

Fig. 6

7000

Siemens Safety Integrated Acceptance Test		Running: Test 1	
List of Tests	Test of Wiring Cross Check Please perform the set of steps listed below.		
<input type="checkbox"/> Overview	<input type="checkbox"/> Disconnect one channel (NCK/PLC/PROFIsafe) of a Cross-Checked input signal. For example disconnect protective door, light barrier or similar.	<input type="button" value="Confirm"/> <input type="button" value="Disconnect"/>	
<input type="checkbox"/> Pulse Disable Path	<input type="checkbox"/> Check the alarms that you wish to appear in the report.		
<input type="checkbox"/> External Stops	<input checked="" type="checkbox"/> Alarm 5011		
<input type="checkbox"/> SPL Inputs/Outputs	<input checked="" type="checkbox"/> Alarm 5028		
<input type="checkbox"/> Wiring Cross Check	<input checked="" type="checkbox"/> Alarm 5034		
<input checked="" type="checkbox"/> Test 1	<input checked="" type="checkbox"/> Alarm 5022	<input type="button" value="Confirm"/> <input type="button" value="Selections"/>	
<input type="checkbox"/> Emergency Stop			
<input type="checkbox"/> Functional Relationships			
<input type="checkbox"/> (SBH) Safe Oper. Stop			
<input type="checkbox"/> (SG) Safe Speed			
<input type="checkbox"/> (SE) Safe Software Limit			
<input type="checkbox"/> Finished	3 Reconnect the disconnected channel.	<input type="button" value="Confirm"/> <input type="button" value="Reconnect"/>	
7350			
<input type="button" value="Previous Page"/> <input type="button" value="Next Page"/>		<input type="button" value="Exit"/>	<input type="button" value="Help"/>

Fig. 7

8000

Siemens Safety Integrated Acceptance Test		Results: Test 1					
List of Tests <ul style="list-style-type: none">OverviewPulse Disable PathExternal StopsSPL Inputs/OutputsWiring Cross Check<ul style="list-style-type: none">✓ Disconnected InputEmergency StopFunctional Relationships(SBH) Safe Oper. Stop(SG) Safe Speed(SE) Safe Software LimitFinished	Test of Wiring Cross Check <p>The test is complete. Please provide a description of the test and indicate success or failure.</p> <table border="1"><thead><tr><th>Test Trigger Condition:</th><th>Verify Alarms List</th><th>Repeat This Test</th></tr></thead><tbody><tr><td>Disconnected Input I32.7</td><td>Alarm 5011 Alarm 5028 Alarm 5034 Alarm 5022</td><td>Delete Test Results</td></tr></tbody></table> <p><input checked="" type="radio"/> Click here if the expected reaction occurred and the expected alarms appear.</p> <p><input type="radio"/> Click here if the expected reaction did NOT occur or the expected alarms did NOT appear.</p>	Test Trigger Condition:	Verify Alarms List	Repeat This Test	Disconnected Input I32.7	Alarm 5011 Alarm 5028 Alarm 5034 Alarm 5022	Delete Test Results
Test Trigger Condition:	Verify Alarms List	Repeat This Test					
Disconnected Input I32.7	Alarm 5011 Alarm 5028 Alarm 5034 Alarm 5022	Delete Test Results					
8350							
<div>< Previous Page Next Page -></div> <div>Exit Help</div>							

Fig. 8

9000

9350

Siemens Safety Integrated Acceptance Test

List of Tests

- ☐ Overview
- ☐ Pulse Disable Path
- ☐ External Stops
- ☐ SPL Inputs/Outputs
- ☐ Wiring Cross Check
- ☐ Emergency Stop
- ☐ Functional Relationships
- ☐ (SBH) Safe Oper. Stop
 - ☒ Axis X1 +
- ☐ (SG) Safe Speed
- ☐ (SE) Safe Software Limit
- ☐ Finished

Test of SBH (Safe Operational Stop) Reaction

The test is complete. Please provide a description of the test and indicate success or failure.

Results: Axis X1 +

Description	Data
Axis/Spindle Name	Axis X1
Direction	Pos
Speed exceeded	71 mm/min
Reaction Time	0.5334 s
Overtravel	5.795 mm

Repeat This Test for Another Axis

Delete Test Results

Test Trigger Condition: Movement with adjusted traversing profile while SBH was active

Test Alarms

- Alarm 27011
- Alarm 27022
- Alarm 300908
- Alarm 300914

☒ Click here if operational stop error was properly handled.
☐ Click here if operational stop error was NOT properly handled.

View Results Graphs

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Exit Help

Fig. 9

2003P00225US01

10000

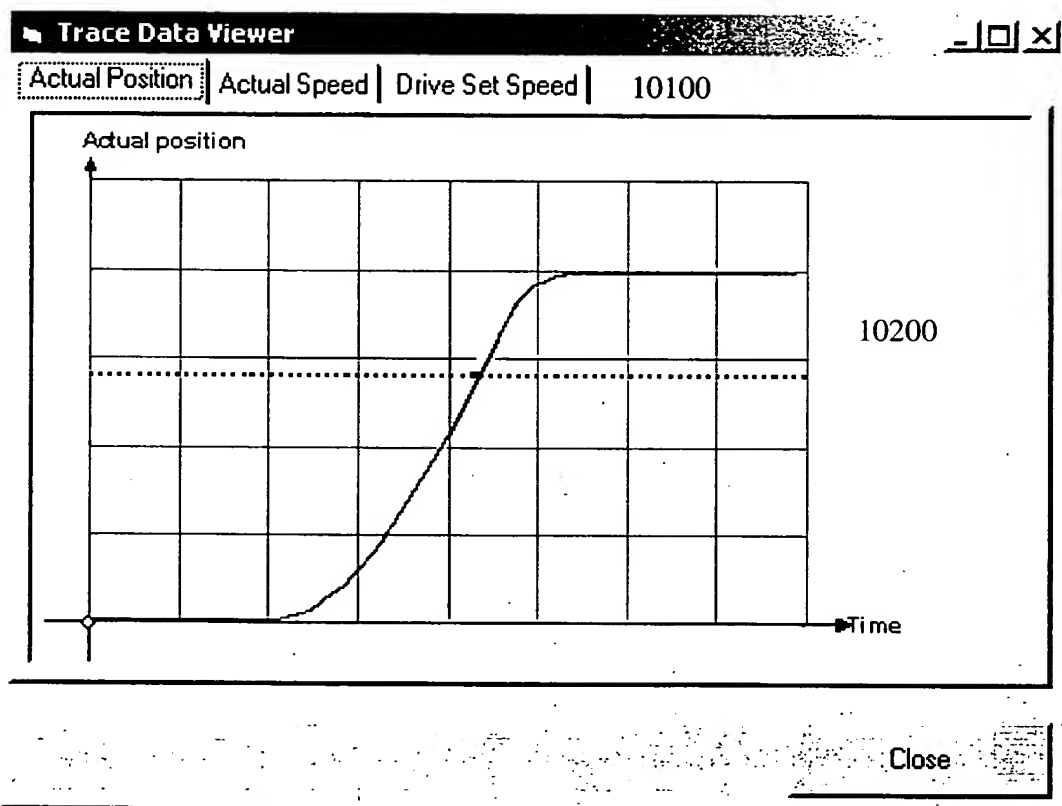


Fig. 10